

11-11-68

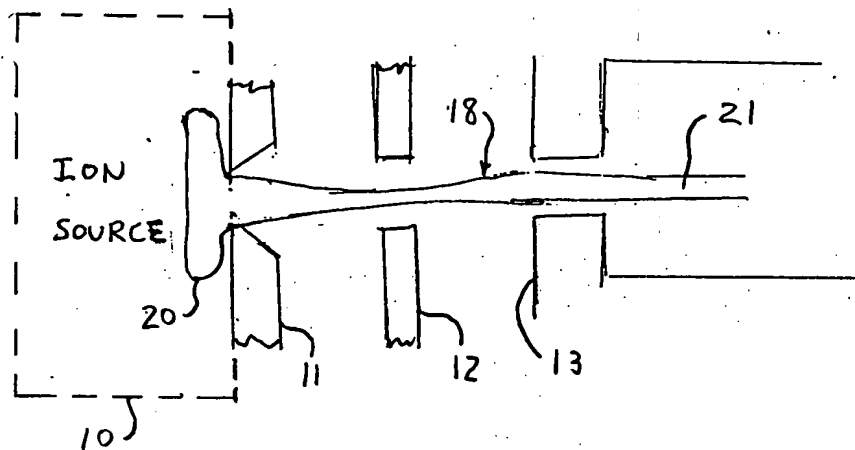


FIG. 1A
PRIOR ART

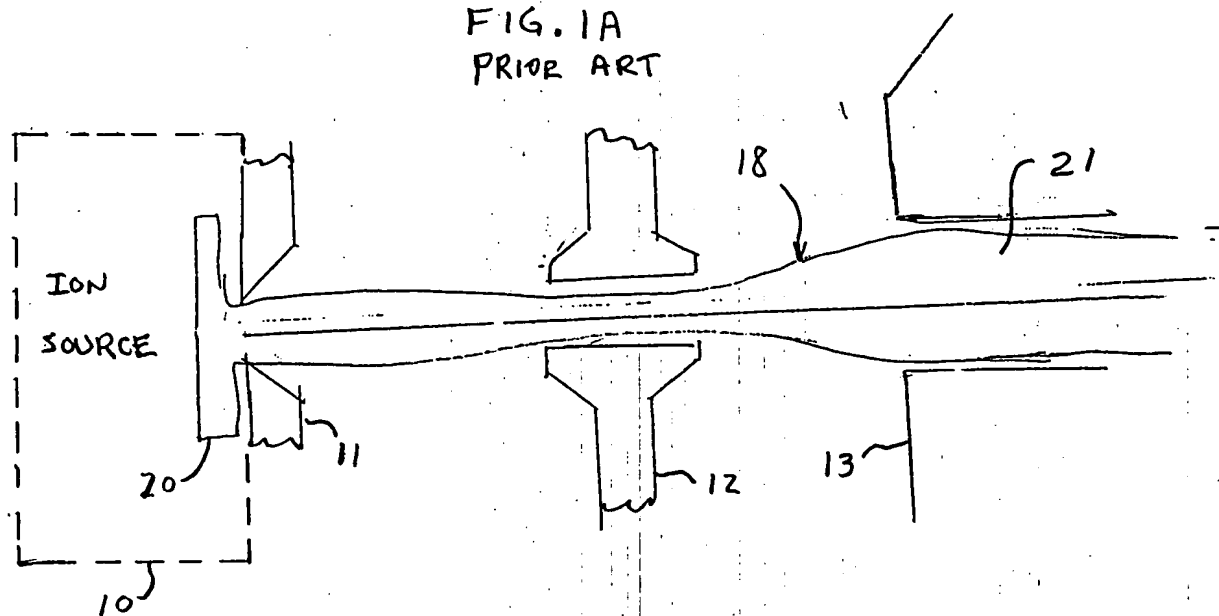


FIG. 1B
PRIOR ART

09080555 112001

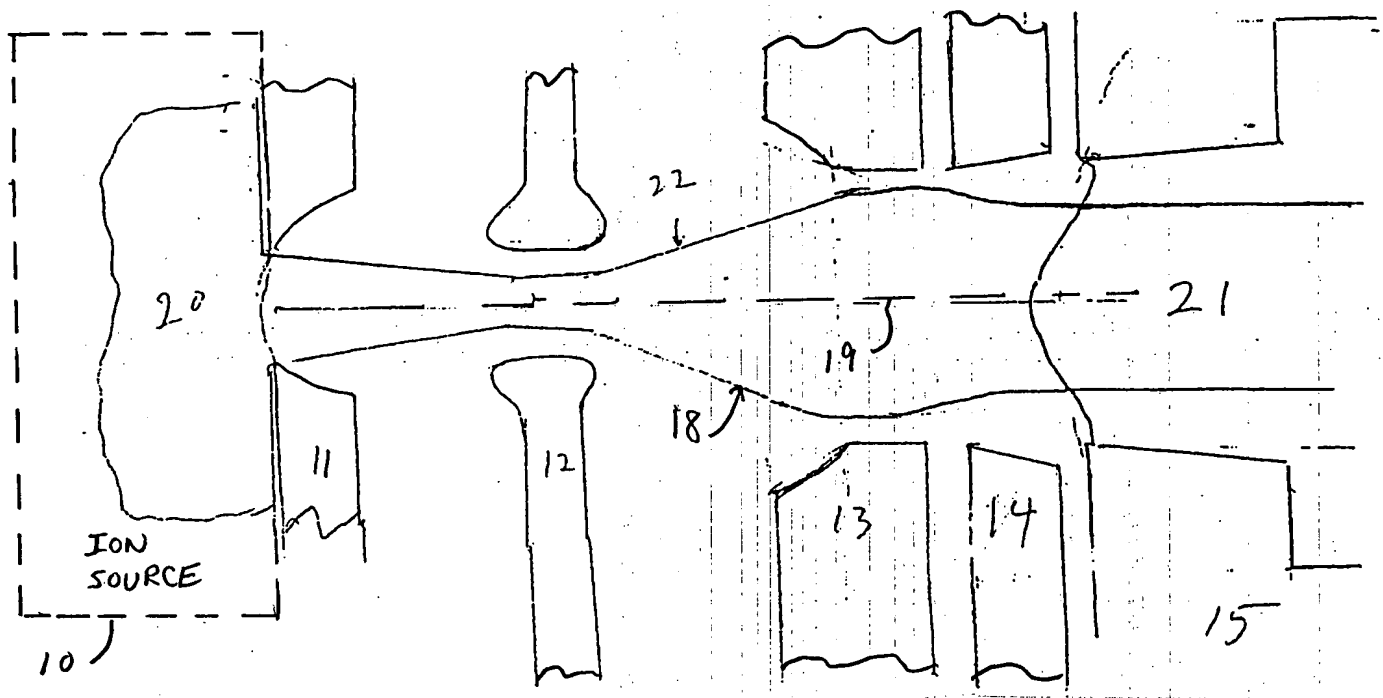


FIG. 2

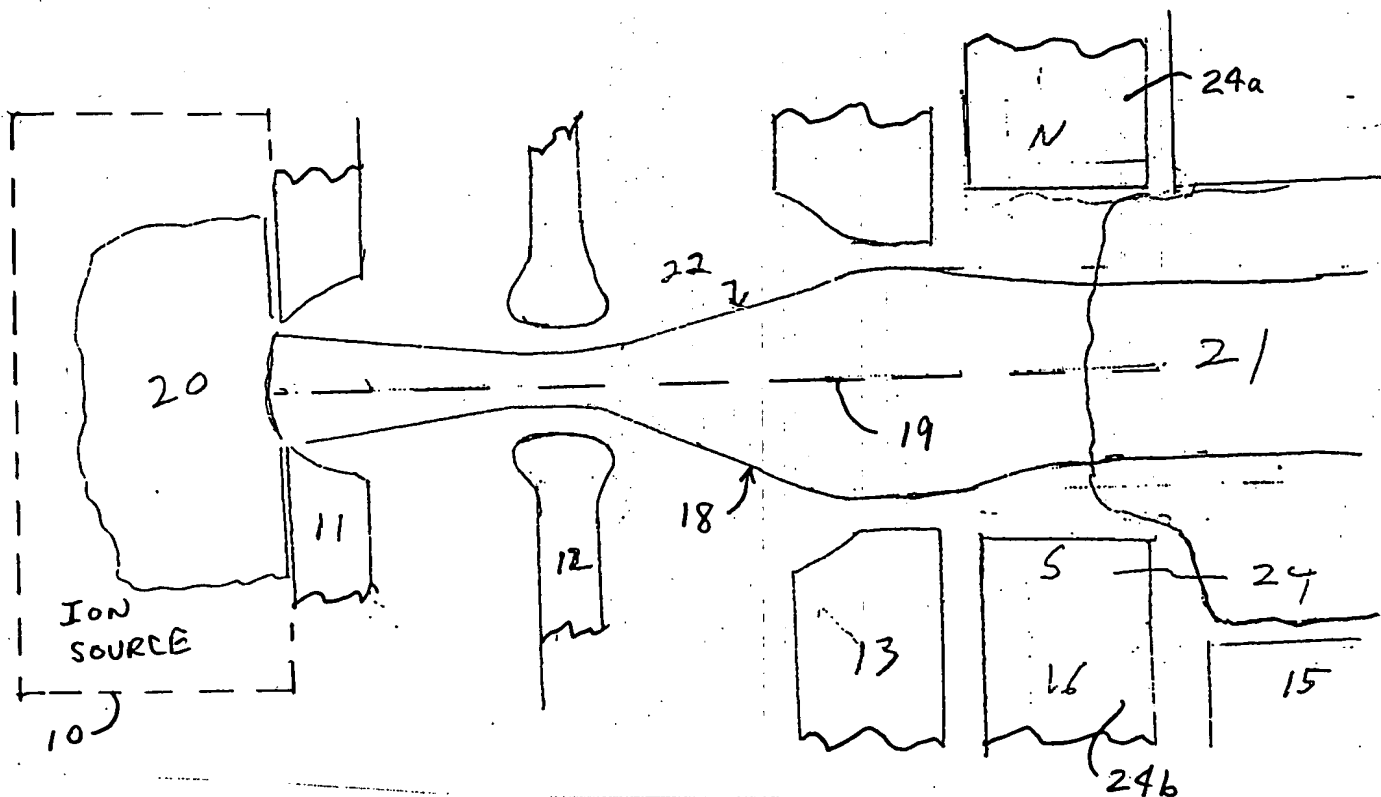
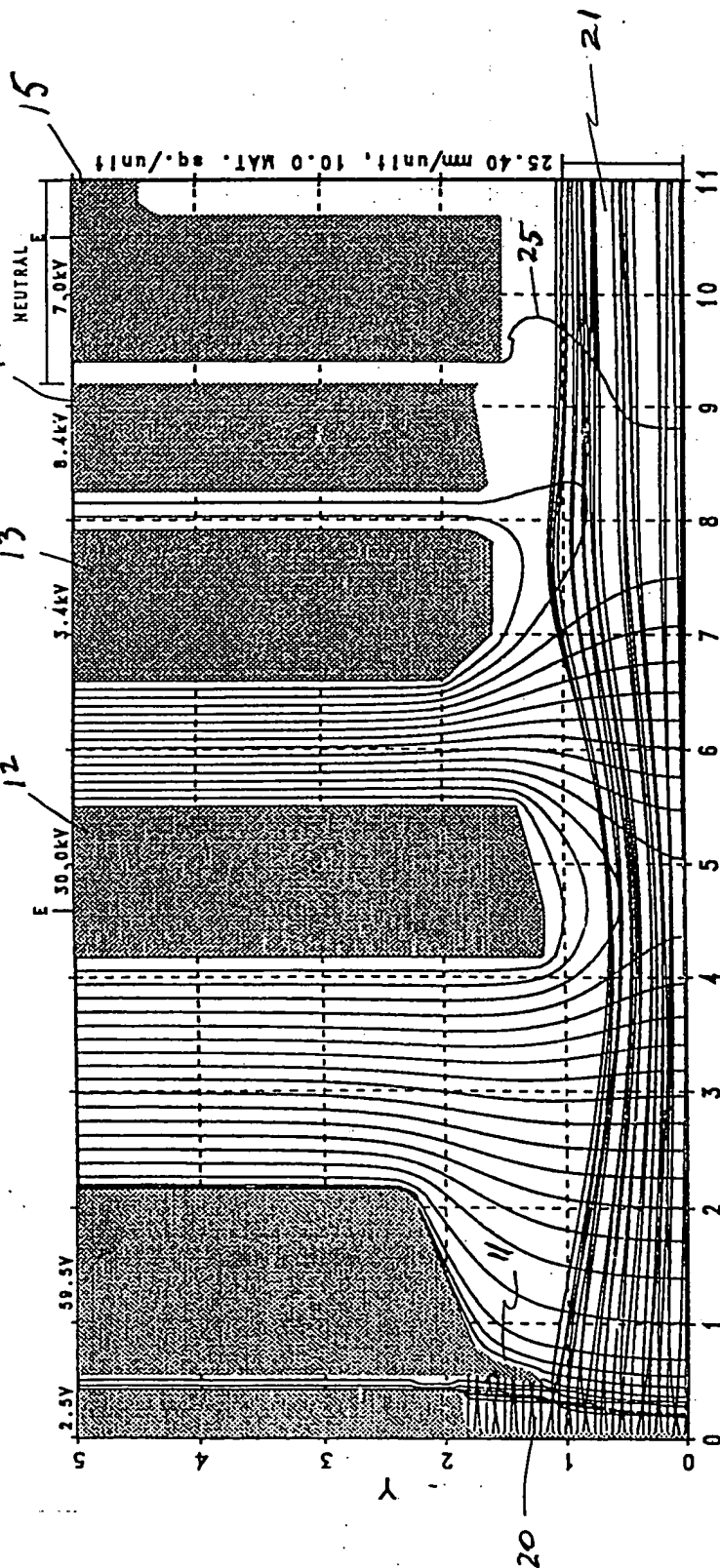


FIG. 3

TRAJECTORIES AND EQUIPOTENTIALS¹⁴

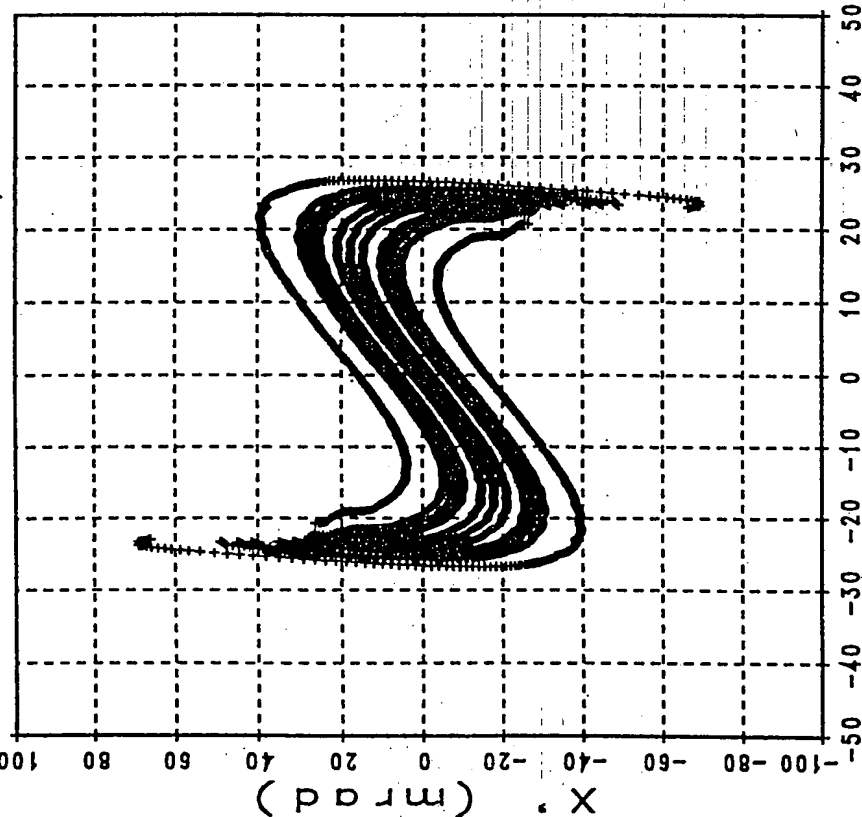


Slit Length = 1.0000 m.; \bar{x} Neutral = 99.5000
 PLASMA I = 0.270000 A, TARGET I = 0.342 A, ANODE = 1.6615E-01 A, Perv = 5.875E-07

FIG. 4A

EMITTANCE PLOT

RMS EMITTANCE = $3.4663E-01$ $\text{pi} \cdot \text{mm} \cdot \text{mrad}$



Alpha -0.244193
 Beta - mm/mrad
 1.036728
 Gamma - mrad/mm
 1.022091
 Beam Current- A
 0.171111

No. of Rays = 5760, at Matrix No. = 106
 BRIGHTNESS = 288.591
 BEAM SLOPE = 0.000 mrad, OFFSET = 0.0000 mm

FIG. 4B

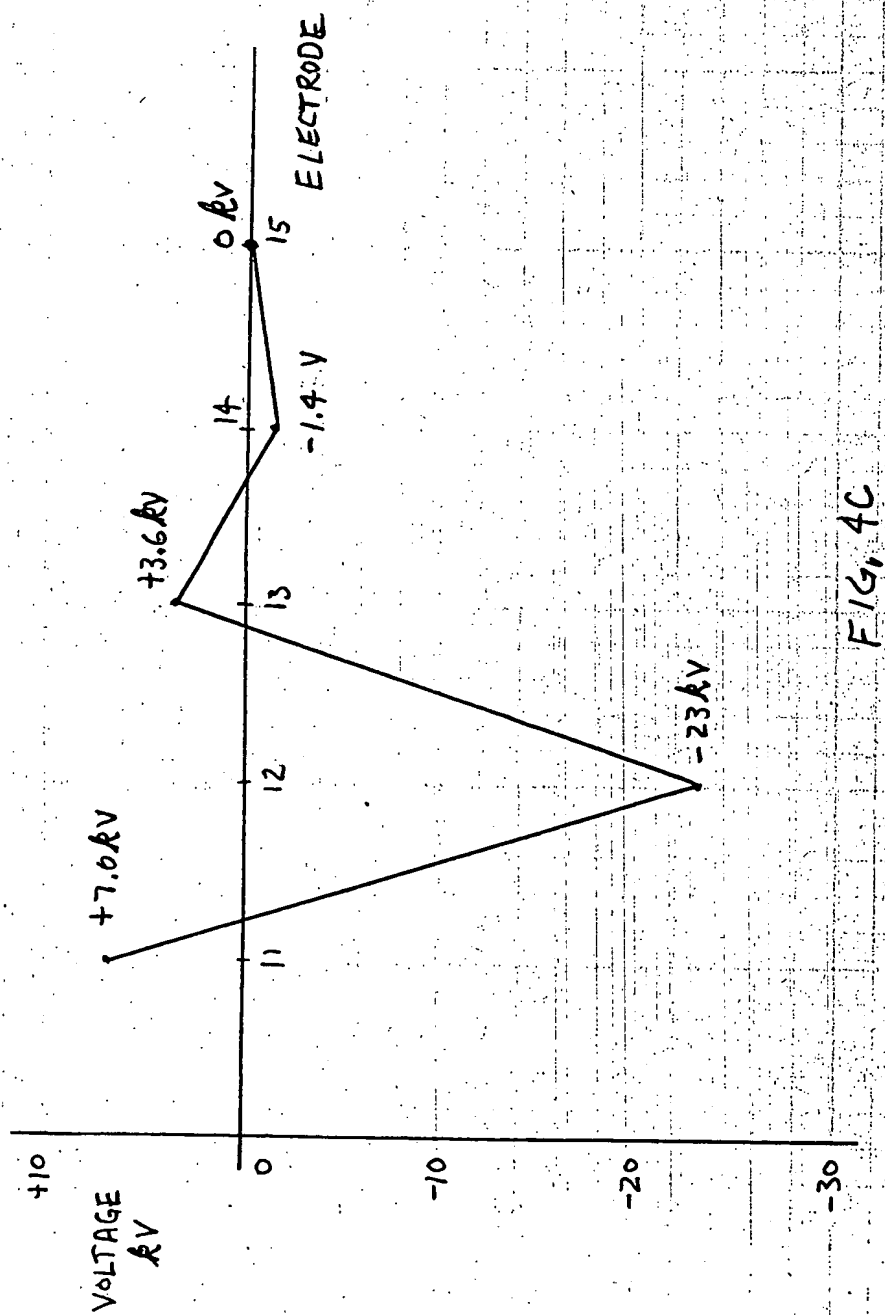


FIG. 4C

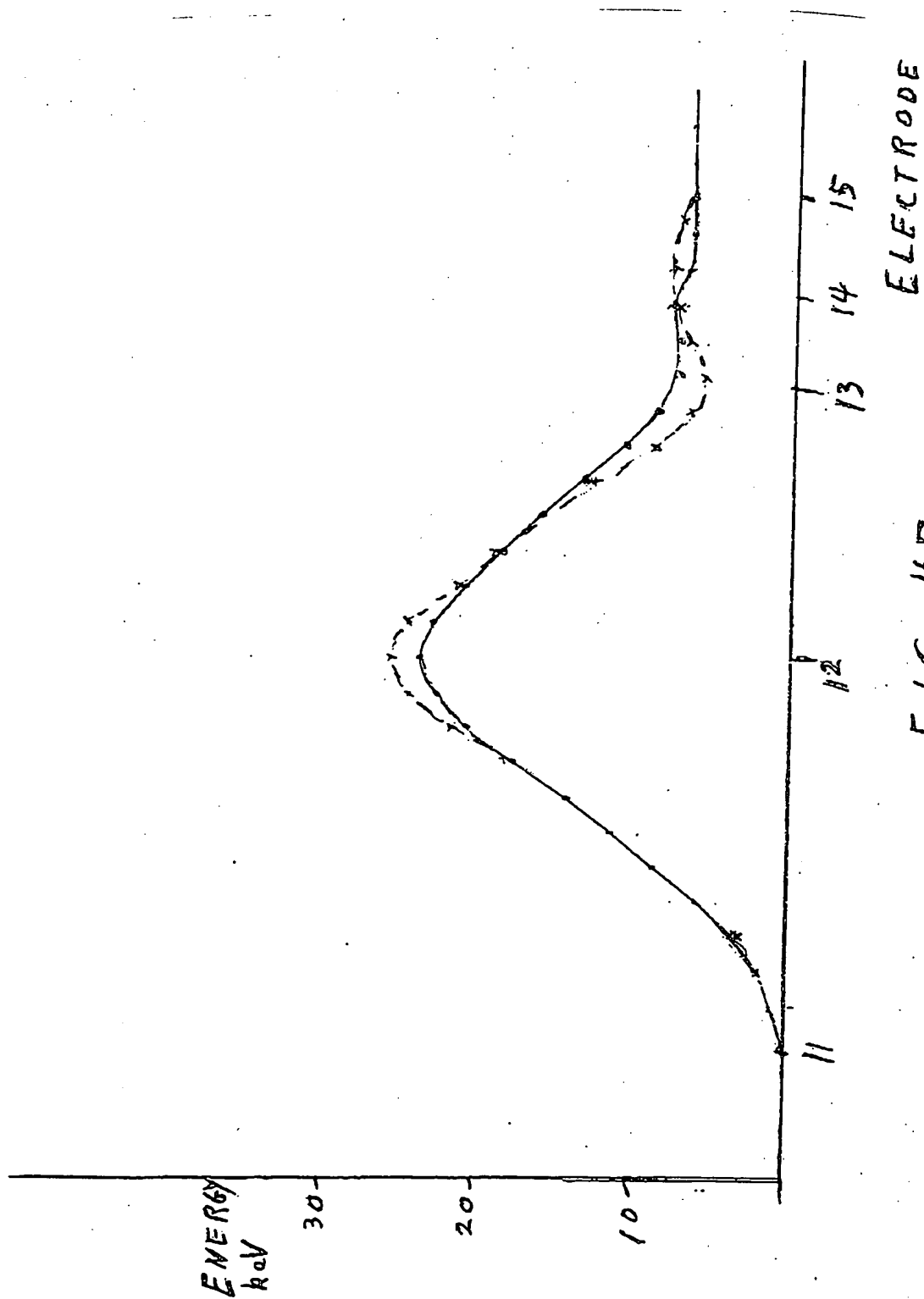


FIG. 4D

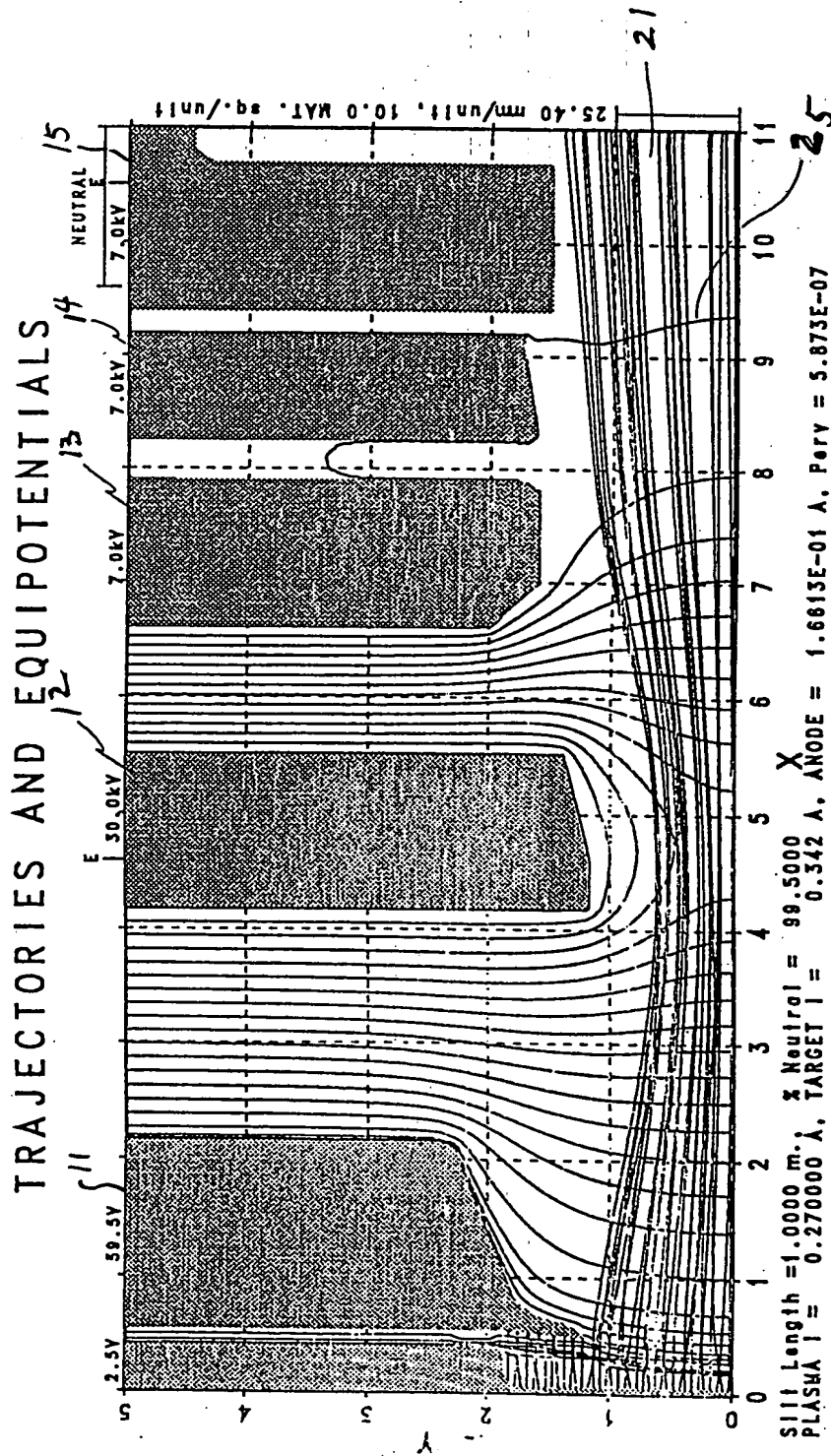
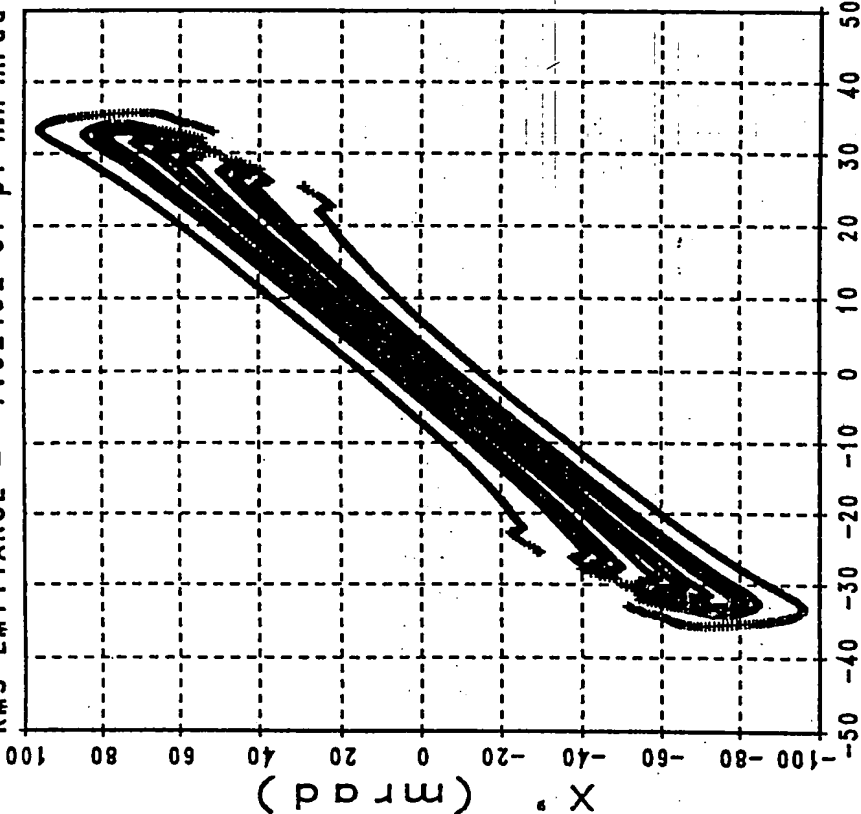


FIG. 5A

EMITTANCE PLOT

RMS EMITTANCE = 1.9249×10^{-1} $\text{pi} \cdot \text{mm} \cdot \text{mrad}$



Alpha -5.737340
 Beta - mm/mrad 2.700052
 Gamma - mrad/mm 12.561638
 Beam Current - A 0.171111

No. of Rays = 5760, at Matrix No. = 106
 BRIGHTNESS = 935.852
 BEAM SLOPE = 0.000 mrad, OFFSET = 0.0000 mm

FIG. 5B

TRAJECTORIES AND EQUIPOTENTIALS 14

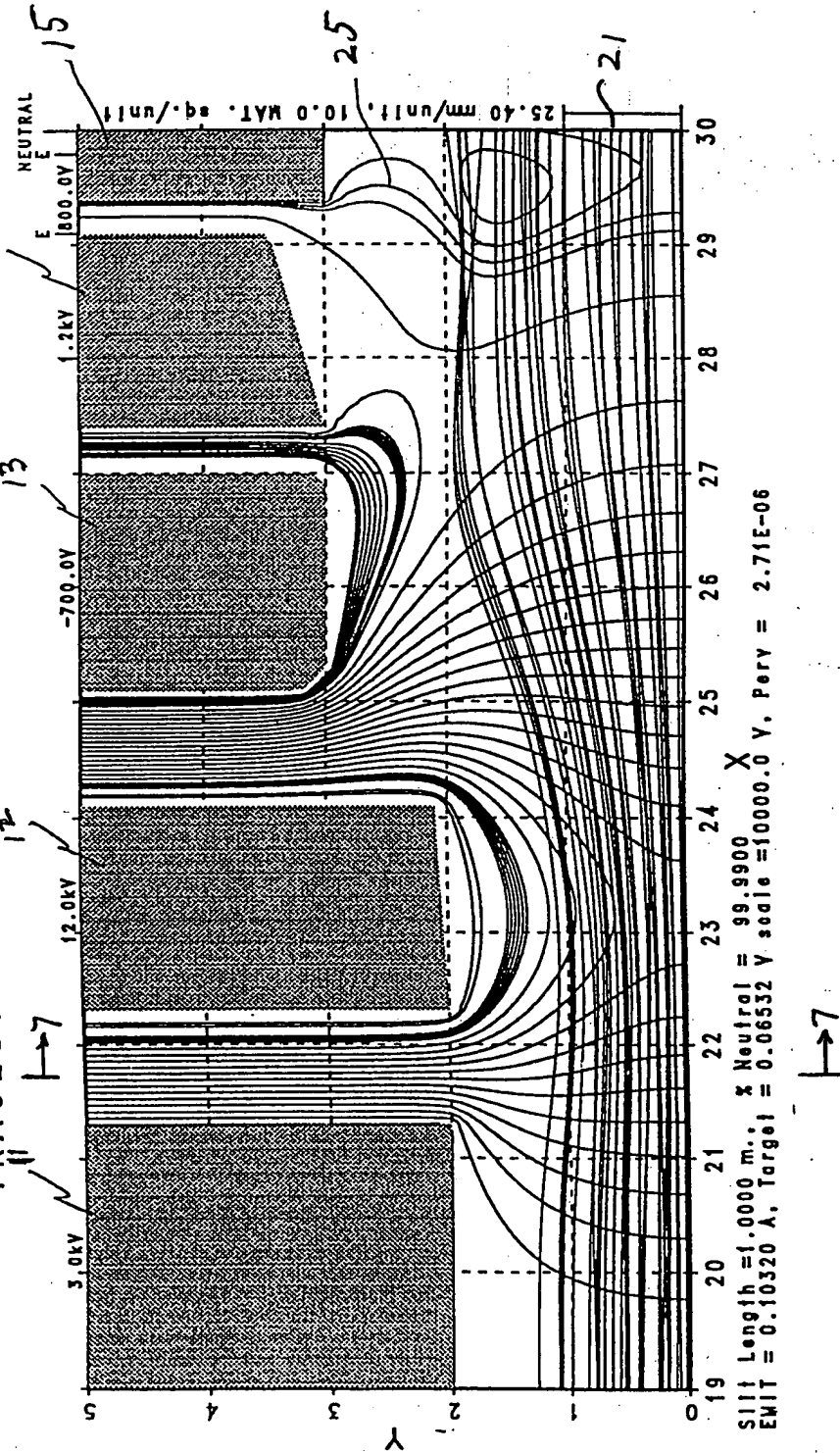


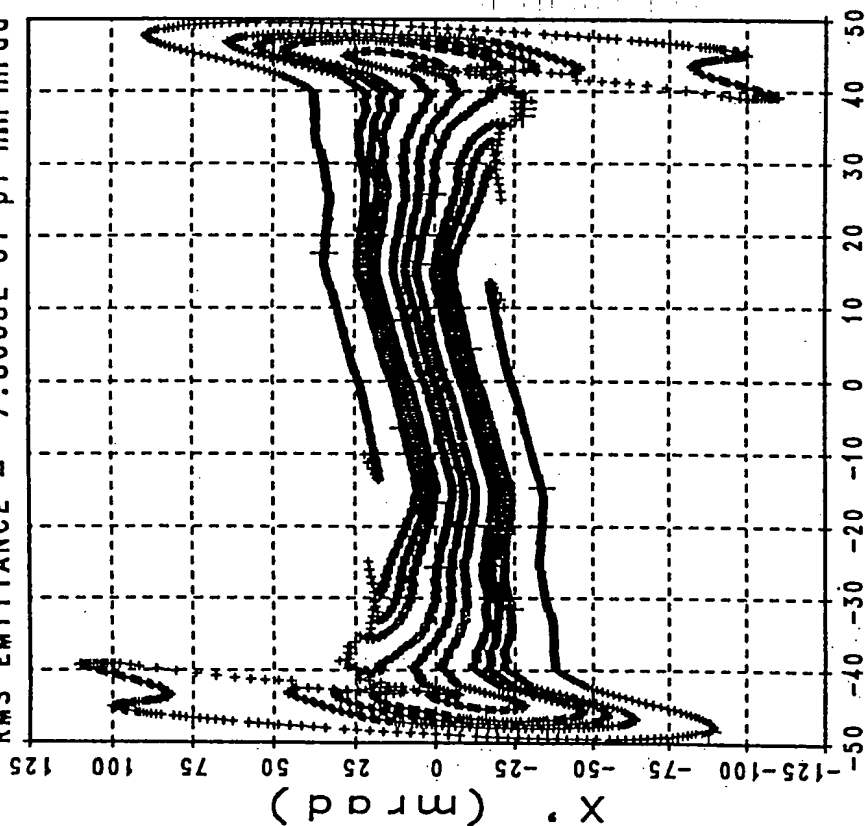
FIG. 6A

100211 59588660

EMITTANCE PLOT

RMS EMITTANCE = 7.8068E-01 pi*mm*mrad

Alpha
-0.010949
Beta - mm/mrad
1.164102
Gamma - mrad/mm
0.859134
Beam Current - A
0.032659



No. of Rays = 5765, at Matrix No. = 102
BRIGHTNESS = 10.859
BEAM SLOPE = 0.000 mrad, OFFSET = 0.0000 mm

FIG. 6B

0998555-12001

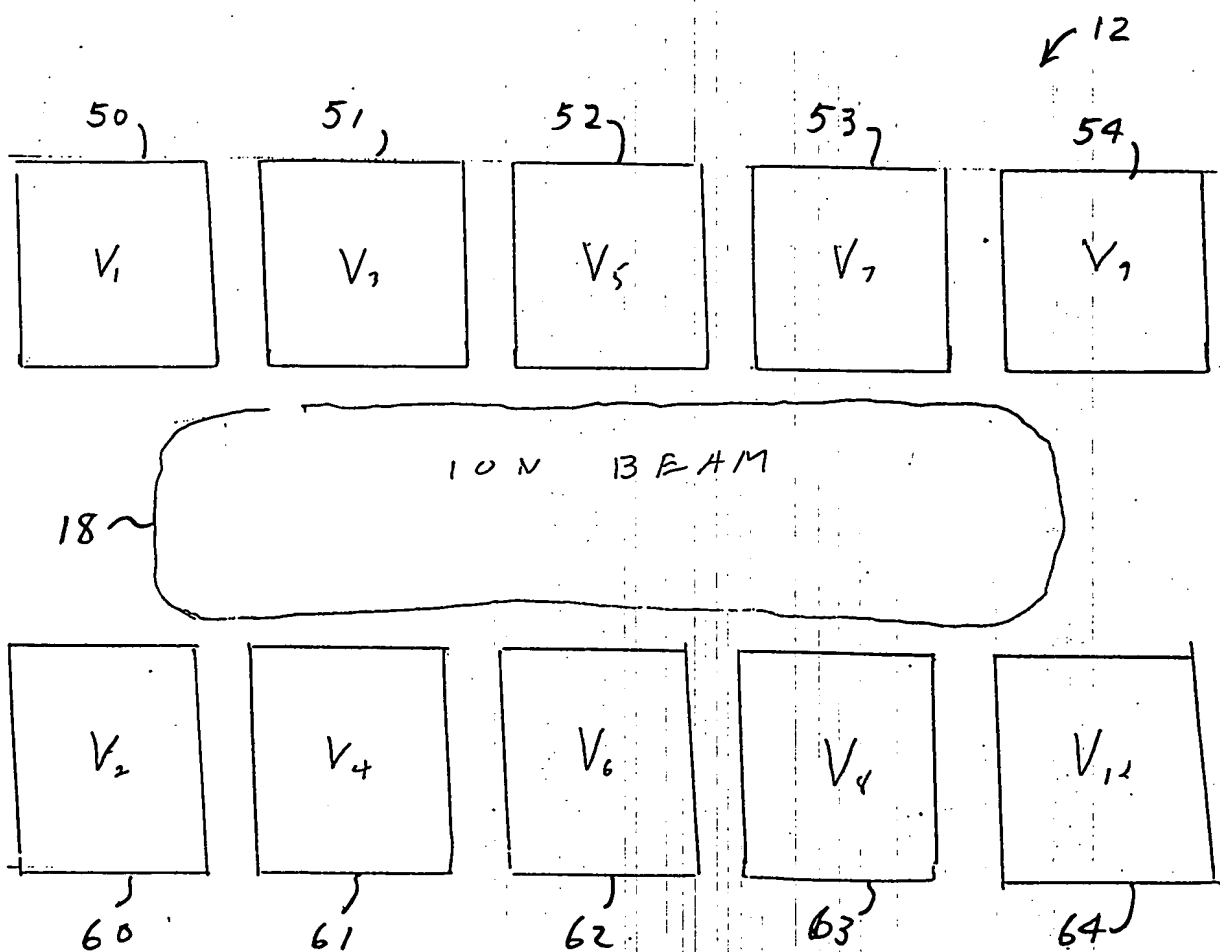


FIG. 7